

FIG. 1

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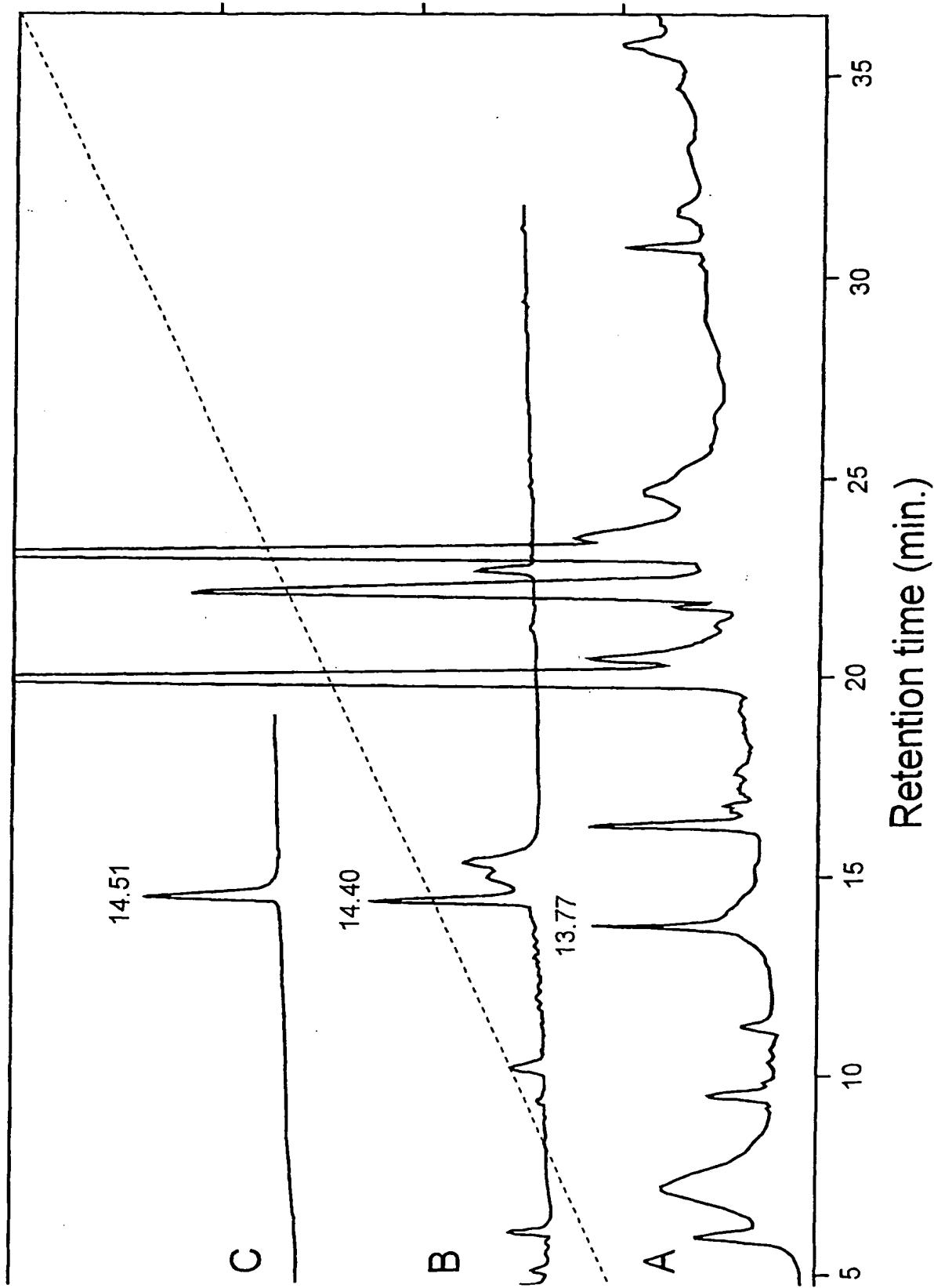
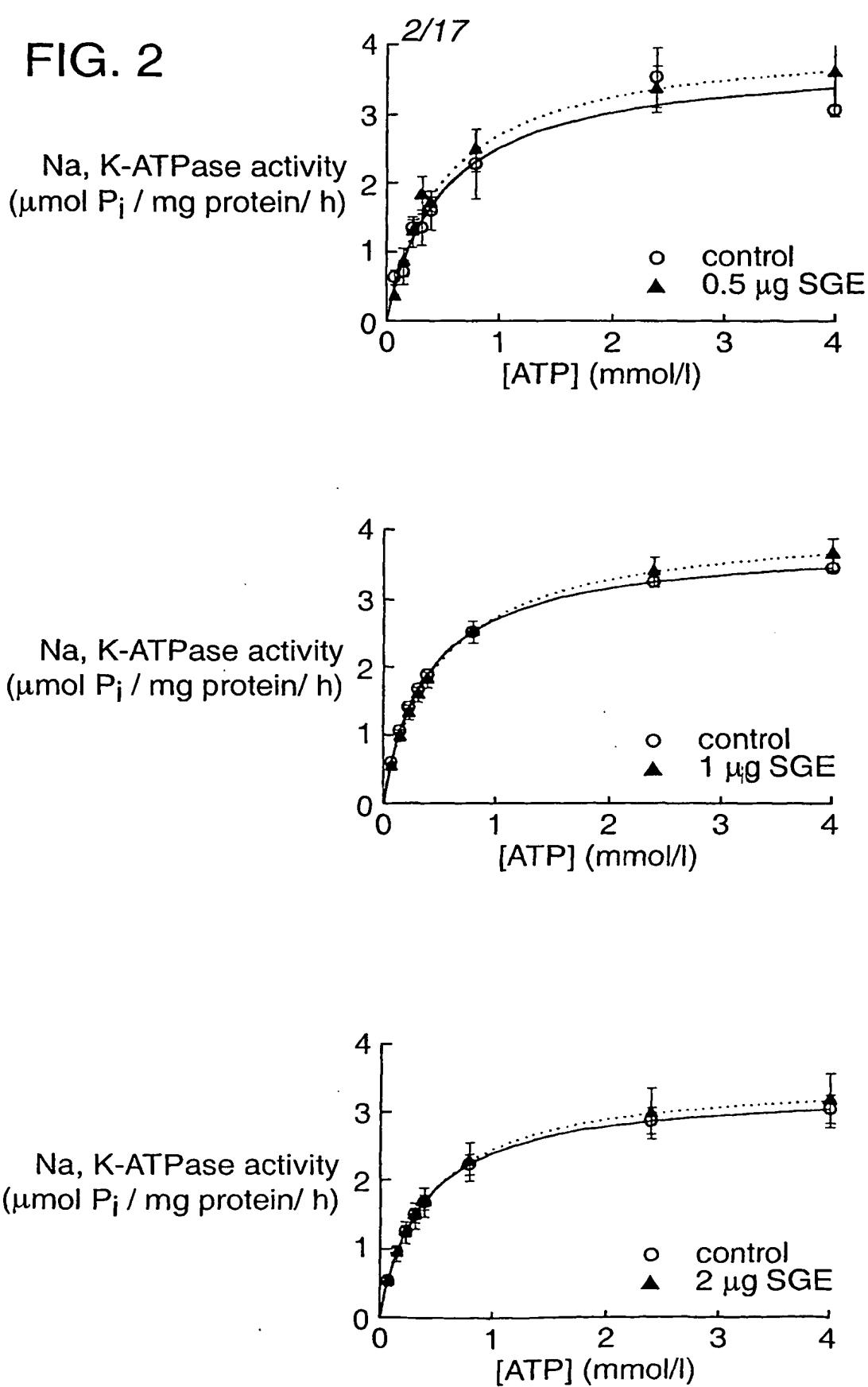


FIG. 2



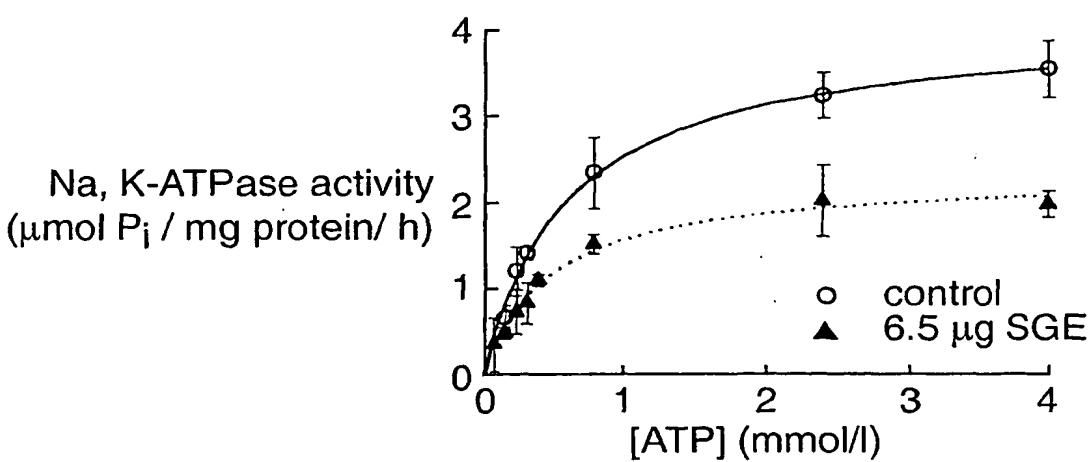
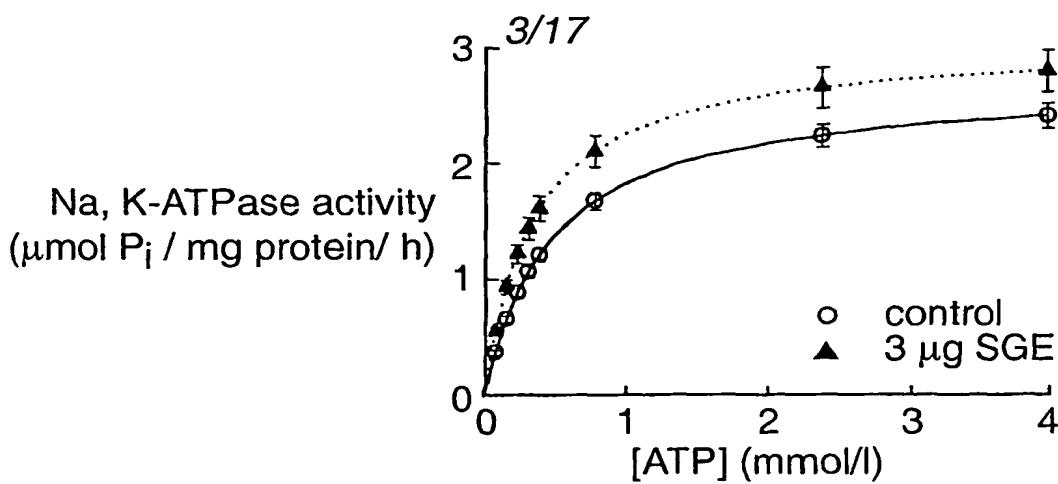


FIG. 2(contd.)

FIG. 3

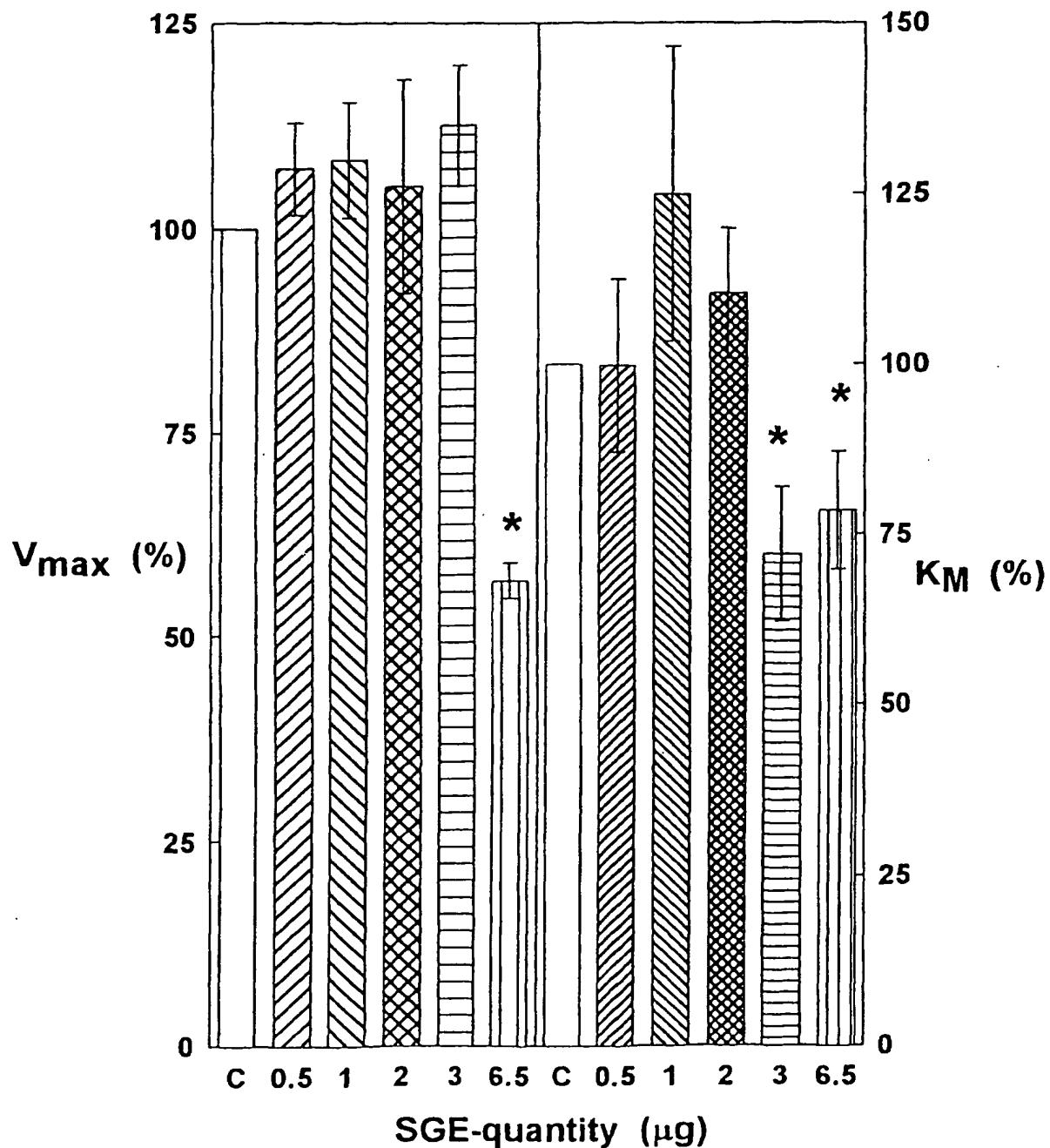


FIG. 4

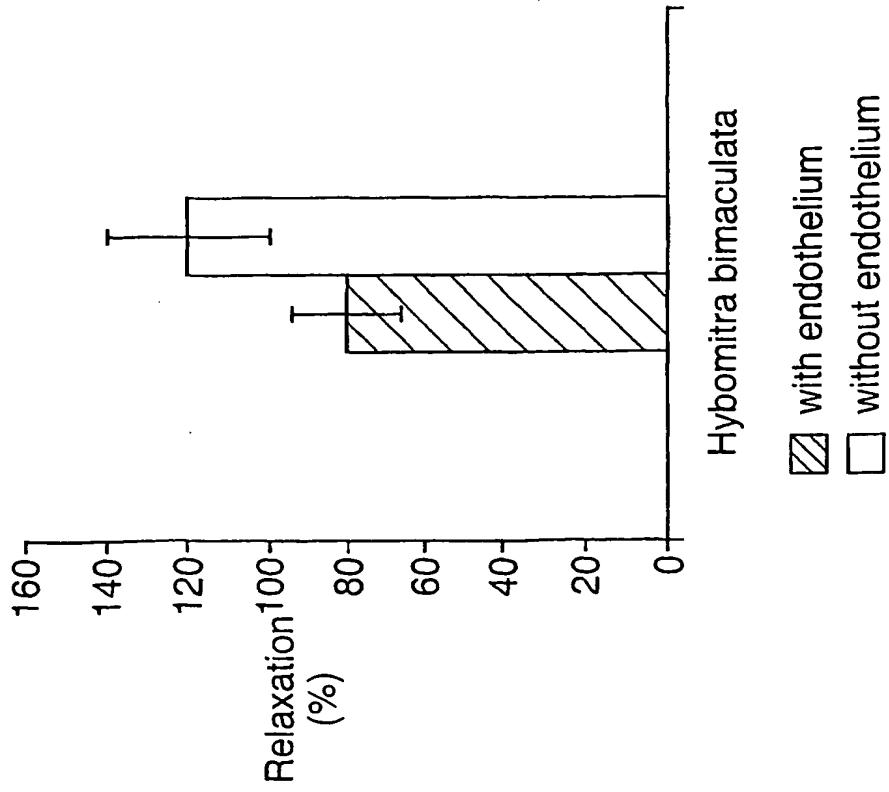
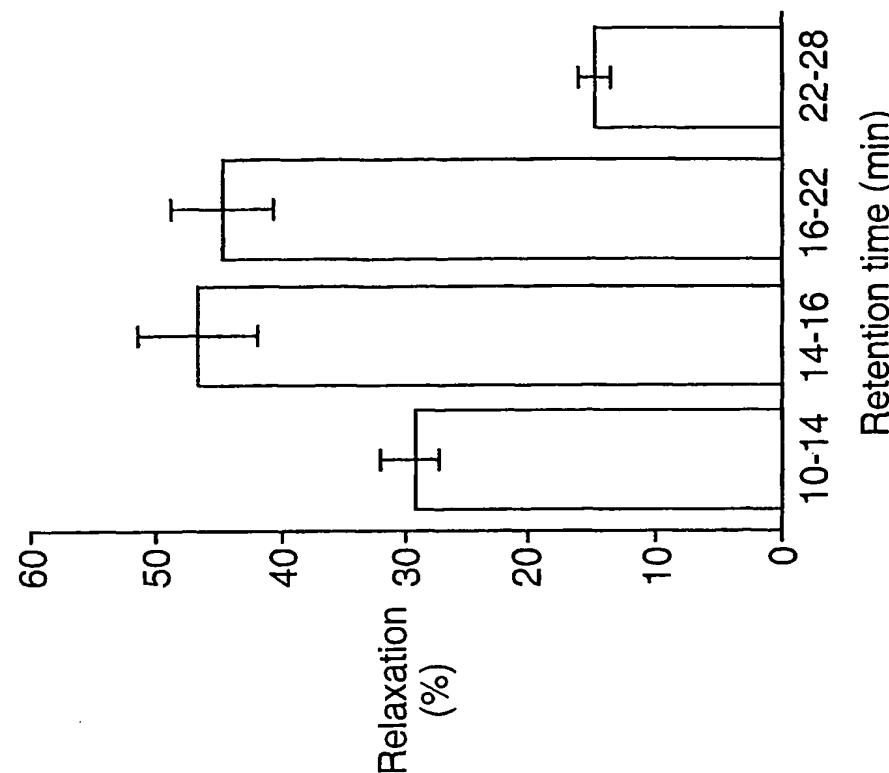


FIG. 5



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FIG. 6

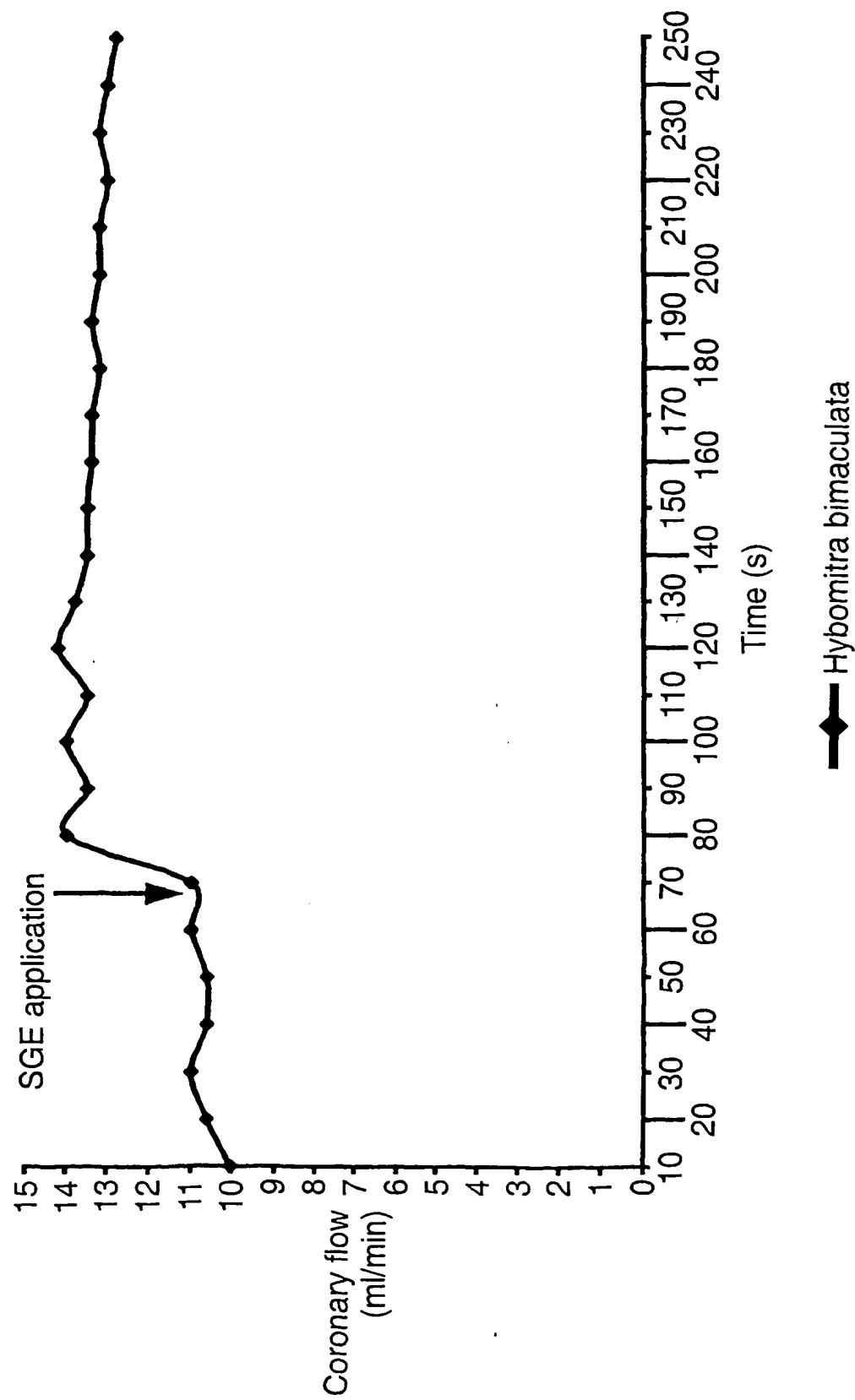


FIG. 7

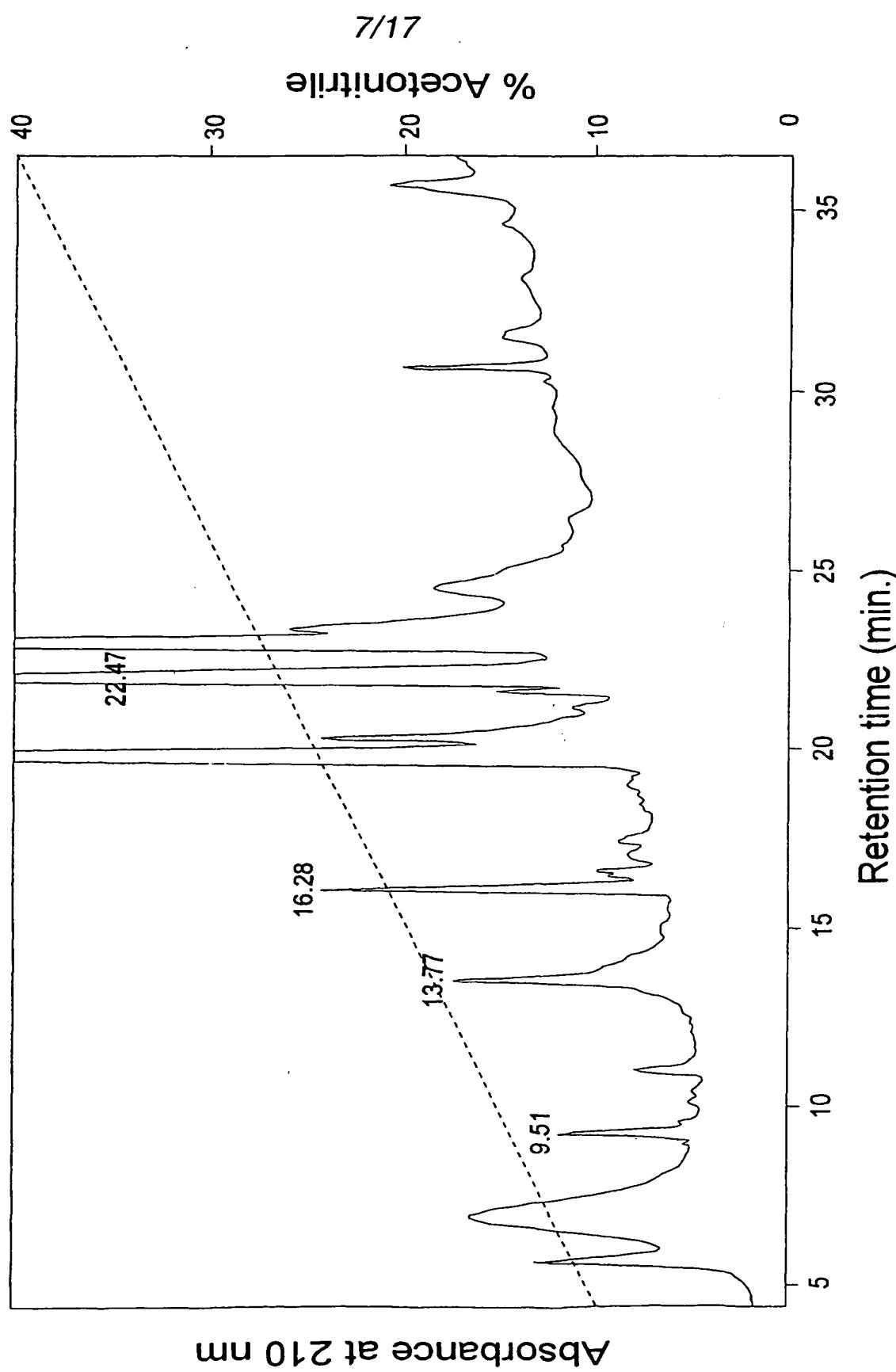


FIG. 8

Asp - Glu - Cys - Pro - Arg - Ile - Cys - Thr - Ala - Asp - Tyr - Arg - Pro - Val -
15
20
25

Cys - Gly - Thr - Pro - Ser - Gly - Gly - Arg - Arg - Ser - Ala - Asn - (Arg) - Thr - Phe -
30
35
40

Gly - Asn - Gln - Cys - (Ser) - (Leu) - (Asn) - (Ala) - (His) - (Asn) - (Cys) - (Leu) -
45
47

(Asn?) - (Lys?/Gly?) - (Lys?/Gly?) - (Asp?) - (Thr?) - (Tyr?) - ...

FIG. 9a

1 GTTTAGTTCACTTTATAGTAACCACTAACAGTTCTAAAGTTAACATNAA
 50

51 TCAAAATGAATTTGCCTTGTTCAGTGTAGTTAGTTGCTCTGCTGATGCA
 1 M K F A L F S V L V V L L I A 15

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101 ACATTTGTTGCCGTGATGAATGCCAACGTATTGCACGGCTGACTATAG
 16 T F V A A D E C P R I C T A D Y R 32

150

151 ACCGGTATGCCGCACTCCCTCTGGTGGTGGCCGAAGTGCAAACAGGACTT
 33 P V C G T P S G G R R S A N R T F 49

200

201 TTGGAAACCAATGTAGCCTCAACGCCACAACTGCTTGAACAAGGGAGAT
 50 G N Q C S L N A H N C L N K G D 65

250

251 ACTTACGACAAACTGCATGATGGCGAGTGCAGTAAAGGACAAGTCCC
 66 T Y D K L H D G E C K * 77

300

301 AGGAATATATTGACTCCACTTGAATATGTA 331

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FIG. 9b

consensus	CsrypnpstskDGklvaCpheydPVCGs	DGvrysNECcElkk
C+r	C++ty+PVCG	++T +N C+L++
14, 51min	3 CPRI-----	CTADYRPVCGTpsggrrsANRTFGNQCSLNA 37
consensus	aaCaenveggtniekkhdGpC	
	+ C +t+g + k hdG+C	
14, 51min	38 HNC---LNKGDTYDKLHDGEC	55

FIG. 10

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	1	2	3	4	5	6
	C	C	#	C	C	C
Horse_fly_EV048	CPRI	-----	CT	..ADYRPVCGTpsgrrsANRTFGNQCSLN	AHNC	--L.NKGDTYDKLHDGEC
THBI_RHOPR/6-48	CA	-----	CP	..HALHRVCGS	.....	DGETYSNPCTLN--CAKF-.GKPEL-VKVHDGPC
THBI_RHOPR/57-101	CQE	-----	CD	..gDEYKPVCGS	.....	DDITYDNNCRLE--CASIC.SSPGV-ELKHEGPC
IELA_ANESU/4-48	CPLI	-----	CT	..MQYDPVCGS	.....	DGITYGNACMILLGASCRS
AGRI_CHICK/81-126	CKKTA	-----	CP	..VVVAPVCGS	.....	DYSTYSNECELEKAQC
IAC2_HUMAN/36-84	CSQYRLPG	-----	CP	..RHFNPVCGS	.....	DMSTYANECTL--CMKIR.EGGHNIKIIRNGPC
AGRI_CHICK/588-633	CDFT	-----	CL	..aVPRSPVCGS	.....	DDVTYANECELKKTRC
AGRI_RAT/600-645	CDFS	-----	CQ	..sVPRSPVCGS	.....	DGVTYGTECDLKKARC
FSA_HUMAN/118-164	CAPD	-----	CSn	..iTWKGPVCGL	.....	DGKTYRNECALLKARC
AGRI_CHICK/156-201	CPAS	-----	CS	..gVAESIVCGS	.....	DGKDYRSECDLNKHAC
AGRI_RAT/167-212	CPTT	-----	CF	..gAPDGTVCGS	.....	DGVDPSECQLLSHAC
AGRI_CHICK/374-418	CQQV	-----	CQ	..GRYDPVCGS	.....	ASQEHIFFKFN
AGRI_RAT/385-429	CQRV	-----	CS	..GIYDPVCGS	.....	GNGPC
PE60_PIG/37-86	CEHMTESPD	-----	CS	..RIYDPVCGT	.....	DGVTYGSVCELES
IPS1_RAT/32-79	CPKQIMG	-----	CP	..RIYDPVCGT	.....	MAC
IPS2_RAT/32-79	CPNTLVG	-----	CP	..RDYDPVCGT	.....	VLKREIRVKHHKGPC
IPST_BOVIN/9-56	CTNEVNG	-----	CP	..RIYNPVCGT	.....	CQRRGTC
IPST_CANFA/10-57	CNLKVNG	-----	CN	..KIYNPICGS	.....	CTLGREIQVAR
AGRI_CHICK/439-483	CPTE	-----	CV	..PSSQPVCGT	.....	RGPC
AGRI_RAT/450-494	CPSE	-----	CV	..ESAQPVCGS	.....	THQISIYVASAGHC
AGRI_CHICK/504-548	CPR	-----	CE	..qQPLAQVCGT	.....	CP
AGRI_RAT/515-559	CPR	-----	CE	..hPPPPGVCGS	.....	QQQKSIEVAKMGPC
AGRI_CHICK/805-851	CPSPL	-----	CS	..eANMTKVCGS	.....	QQQVQIEEAHAGPC
AGRI_RAT/818-864	CPTLT	-----	CP	..eANSTKVCGS	.....	RQGQLITVKHVGQC
IOV7_CHICK/28-85	CSLYASGIGKDGTsWVACP	..	RNLKPVCGT	.....	DGVTYGNECQLKAIAC	
IOV7_CHICK/94-150	CSPYLVQ-VRDGNtMVACP	..	RILKPVCGS	.....	RQRDISTQSLGPC	
IOV7_CHICK/159-216	CSKPSTVSKDGRtLVACP	..	RILSPVCGT	.....	CSLYASCELVHAC	
IOV7_CHICK/225-282	CDQYPTRKTTGGK1LVRC	..	RILLPVCGT	.....	THQISIYVASAGHC	
IOVO_CHICK/29-86	CSRFPNATDKEGKdVLVCN	..	KDLRPICGT	.....	CPR	
IOVO_COTJA/5-62	CSRFPNTTNEEGKdEVVCP	..	DELRLICGT	.....	QQQKSIEVAKMGPC	
IOVO_CHICK/94-151	CSSYANTTSEDGKvMVLCN	..	RAFPNVCGT	.....	CPR	
IOVO_COTJA/70-127	CSRYPNTTSEDGKtTILCT	..	KDFSVCGT	.....	CP	
IOV7_CHICK/356-413	CSKYKTSTLKDGrqVVACT	..	MIYDPVCAT	.....	CGEMSAMHA	
IPST_ANGAN/12-61	CGEMSAMHA	-----	CP	..MNFAPVCGT	.....	DNFTYNEEC
AGRI_CHICK/299-344	CDRIT	-----	CD	..GTYRPVCAR	.....	CFQRL
AGRI_RAT/311-356	CDRV	-----	CD	..GSYRPVCAQ	.....	NTKTDI
FSA_HUMAN/270-316	CDEL	-----	CPd	..sKSDEPVCAS	.....	LITKDDRC
IPSG_CANFA/12-64	CSNYKGKGS	-----	QIACP	..RLHQPICGT	.....	CDRIT
IPSG_MELME/16-68	CSKYNAKGS	-----	QFACS	..RHLDPVCGT	.....	CDRIT
IPSG_FELCA/8-60	CSQYNRKGS	-----	GITCS	..KEWKPICGI	.....	CDRIT
IAC1_BOVIN/14-61	CKVYTEA	-----	CT	..REYNPICDS	.....	CDRIT
IACA_PIG/7-57	CNVYRSH	-----	CT	..RQMDPICGT	.....	CDRIT
IAC2_BOVIN/7-57	CAEFKDP	-----	KVYCT	..RESNPHCGS	.....	CDRIT
IOV7_CHICK/422-472	CREFQKV	-----	SPICT	..MEYVPHCGS	.....	CDRIT
IOVO_ABUPI/8-56	CSDHPKP	-----	ACT	..LEFFPLCGS	.....	CDRIT
IOVO_FRACO/5-53	CSEYPKPG	-----	CT	..MEYRPVCGS	.....	CDRIT
IOVO_CASCA/6-54	CSEYPKP	-----	VCS	..PEYMPLCGS	.....	CDRIT
IOVO_EUDEL/5-51	CSGYPKP	-----	ACT	..LEFFPLCGS	.....	CDRIT
IPSG_CANFA/68-115	CTEYSDM	-----	CT	..MDYRPVLCGS	.....	CDRIT
IPSG_FELCA/64-111	CTNYS	-----	ICT	..MEYFPLCGS	.....	CDRIT
AGRI_CHICK/227-273	LSRPEN	-----	CP	..SKREPVCGD	.....	CDRIT
AGRI_RAT/237-284	MLLRPEN	-----	CP	..AQHTPICGD	.....	CDRIT
FSA_HUMAN/192-239	CNRI	-----	CP	..CPePasseQYLCGN	.....	CDRIT
QR1_COTJA/468-521	CQDPAA	-----	CPs	..tKDyKRVCGT	.....	CDRIT
SCI_RAT/426-479	CQDPET	-----	CP	..aKILDQACGT	CDRIT
SPRC_BOVIN/95-149	CQDPTS	-----	CP	..PapigEFKVCN	CDRIT

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FIG. 11

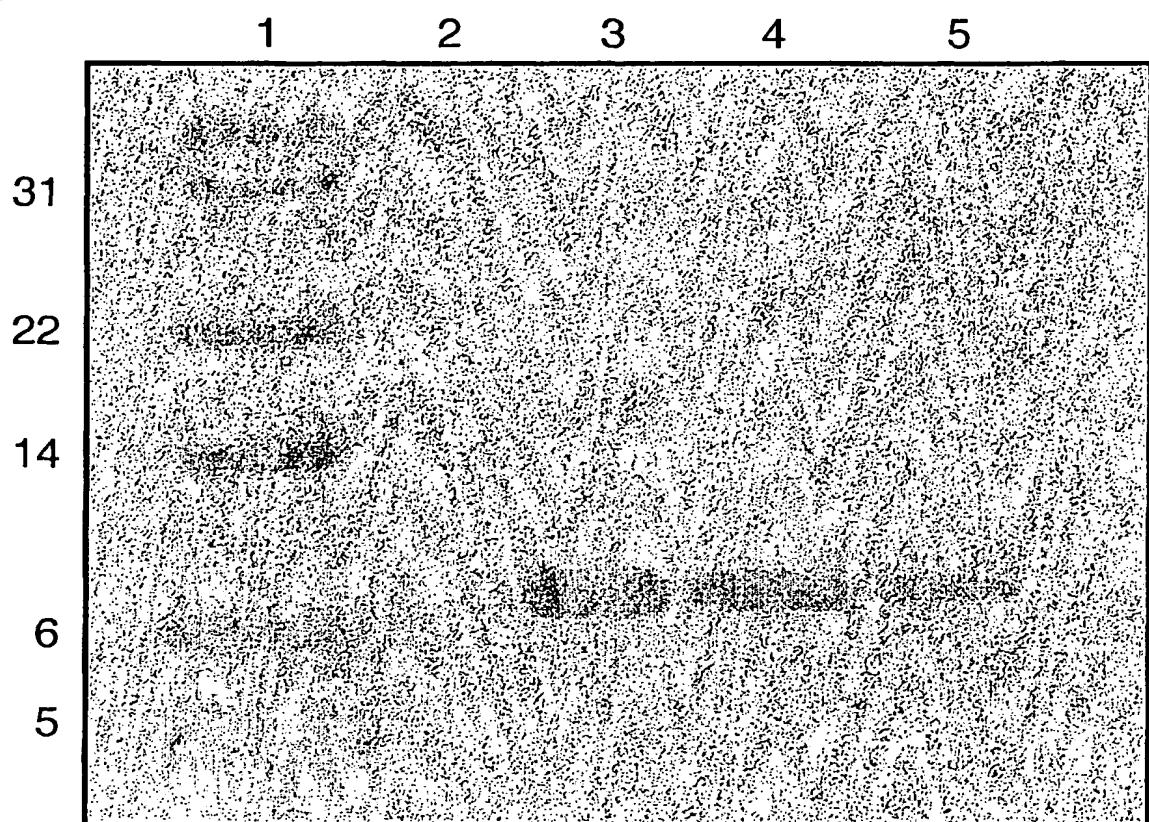


FIG. 12A

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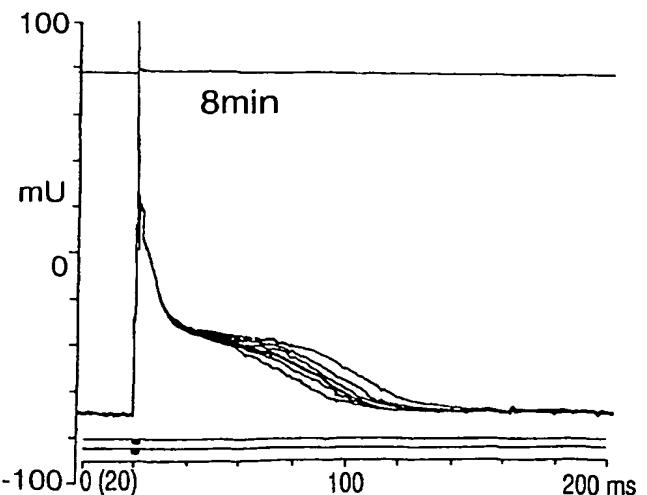
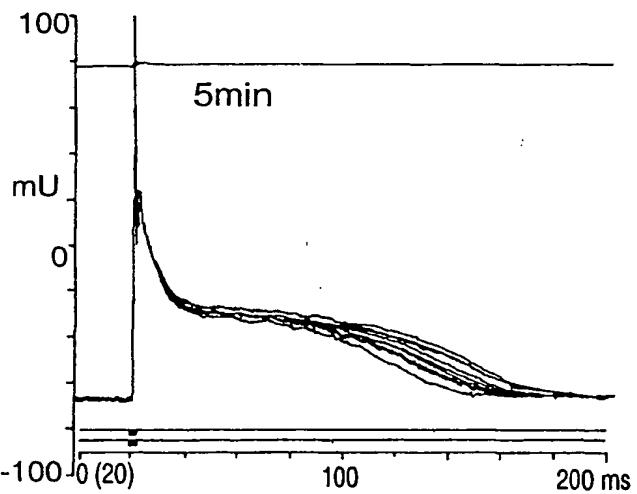
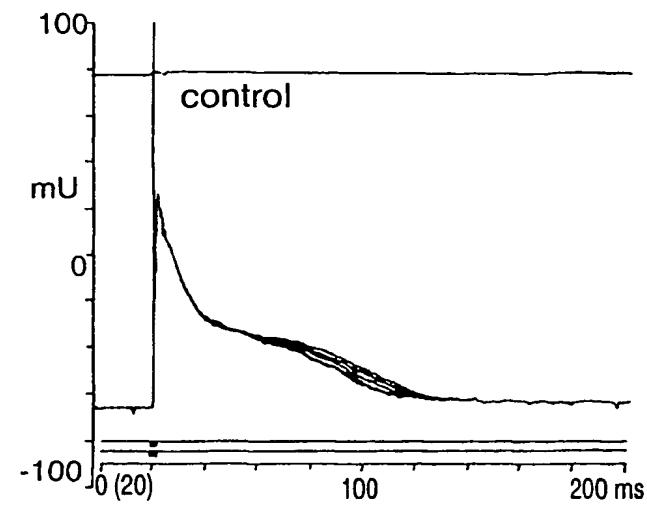


FIG. 12B

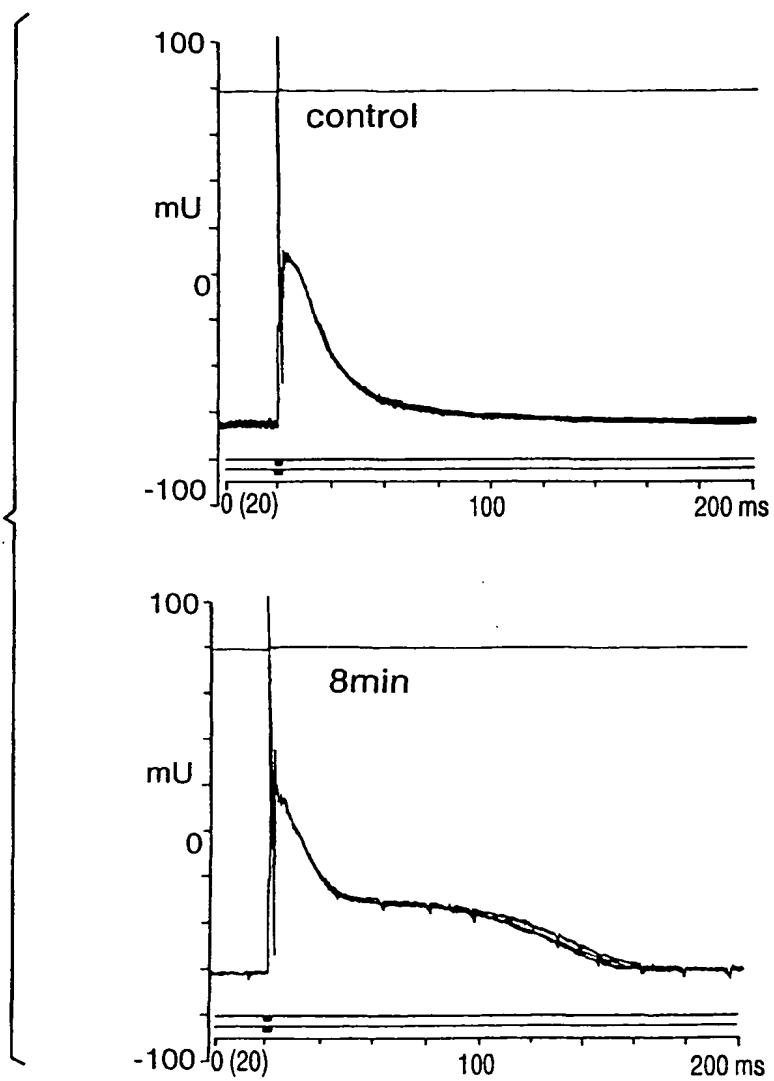


FIG. 12C

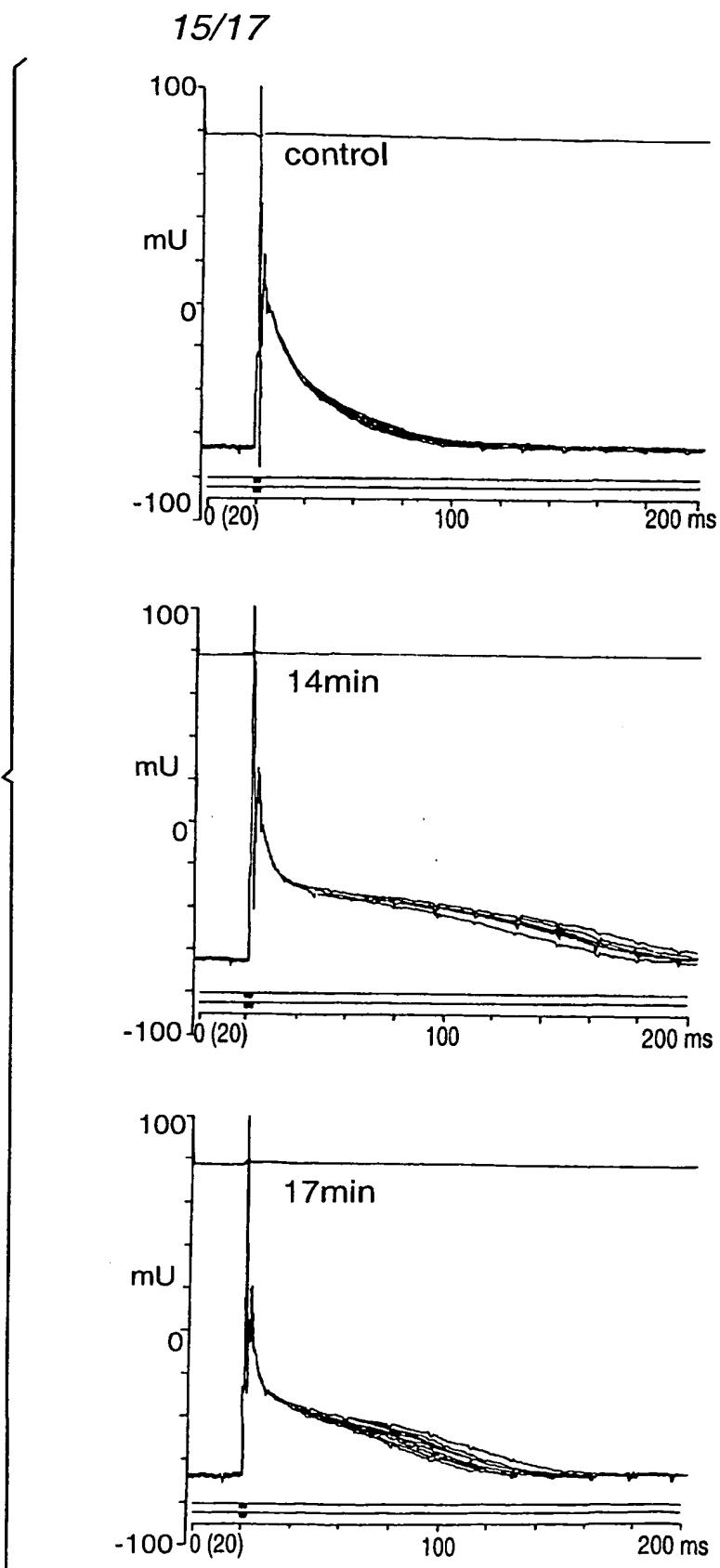


FIG. 13a

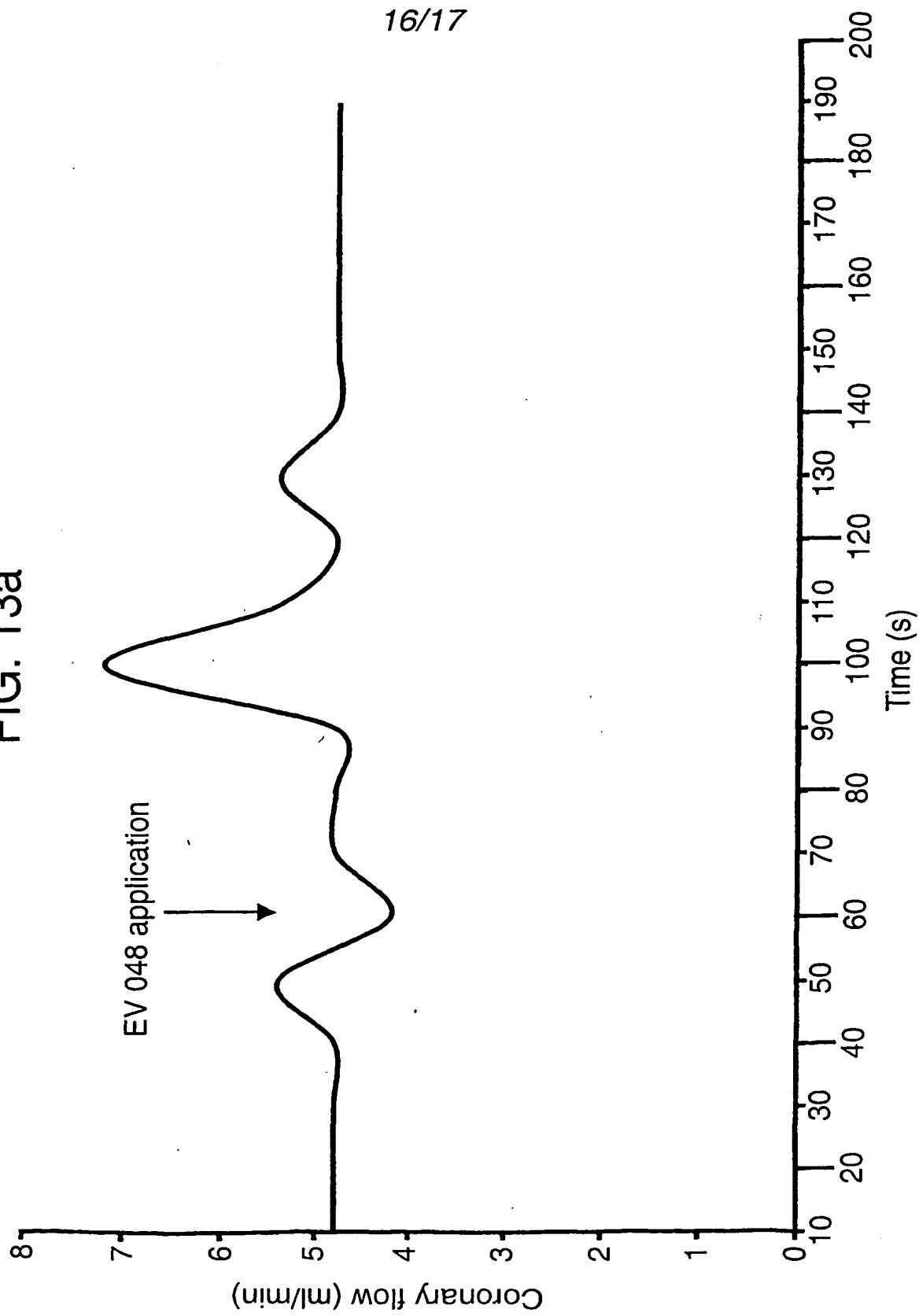


FIG. 13b

